



NEMO|etc.

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ENGINEER

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EVALUATION REPORT

Coronado Stone Products

11191 Calabash Avenue
Fontana, CA 92337
(800) 847-8663

Evaluation Report 1-CSP-18-001.A-R0

FL31373

Date of Issuance: 02/07/2020

SCOPE:

This Evaluation Report is issued under **Rule 61G20-3** and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The product described herein has been evaluated for compliance with the **6th Edition (2017) Florida Building Code** sections noted herein.

DESCRIPTION: Coronado Stone Adhered Masonry Veneer

LABELING: Labeling shall be in accordance with the requirements the Accredited Quality Assurance Agency noted herein.

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO ETC, LLC requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Evaluation Report number preceded by the words "NEMO|etc. Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

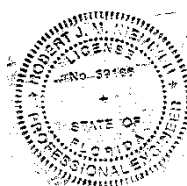
INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 3.

Prepared by:

Robert J.M. Nieminen, P.E.

Florida Registration No. 59166, Florida DCA ANE1983



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 02/07/2020. This does not serve as an electronically signed document.

CERTIFICATION OF INDEPENDENCE:

1. NEMO ETC, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

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PANEL WALLS - SIDING EVALUATION:
1. SCOPE:

Product Category: Panel Walls

Sub-Category: Siding – Adhered Masonry Veneer

Compliance Statement: **Adhered Masonry Veneer**, as produced by **Coronado Stone Products**, has demonstrated compliance with the following sections of the **6th Edition (2017) Florida Building Code** through testing and analysis in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

Section	Property	Standard	Year
1405.10, 2122.1	Various	ACI 530	2013
1405.10	Various	ASCE 5	2013
1405.10	Various	TMS 402	2016
1609.1	Wind Resistance	ASTM E330	2002

3. REFERENCES:

Entity	Examination	Reference	Date
Bishop/Clemson (TL-504)	Compressive (C39/C1670)	8648-20280	02/21/2019
Bishop/Clemson (TL-504)	Saturated weight (C140/C1670)	8548-19896	12/12/2018
Bishop/Clemson (TL-504)	Shear bond (C482/C1670)	8648-20280	02/21/2019
CCL, INTL (TST1685)	ASTM E330	CCLI-16-125	10/04/2016
SGS TEC (A2LA 3767.01)	Linear dry shrinkage (C157/C1670)	18-1492	04/08/2019
SGS TEC (A2LA 3767.01)	Freeze/thaw (C666/C1670)	12-0982	11/05/2019
ICC-ES (EVL2396)	2015 IBC/IRC Compliance	ESR-2598	10/01/2019
QAI (QUA7628)	Quality Control	Inspection Report	01/31/2019

4. PRODUCT DESCRIPTION:

- 4.1 **Coronado Stone** are precast concrete products produced to resemble natural stone or brick, used as a non-bearing adhered exterior veneer on wood- or steel-stud walls or concrete or masonry wall substrates.

5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report is not for use in FBC HVHZ jurisdictions.
- 5.3 Maximum Design Pressure: ± 73.3 psf
Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads.
- 5.4 Direct-application substrates are limited to unsealed, unpainted, clean masonry and concrete. Other substrates shall include water-resistive barrier per **FBC 2510.6** and metal lath in accordance with **FBC 2510**.
- 5.5 Wall substrates shall comply with the applicable FBC Sections.

6. INSTALLATION:
6.1 General

- 6.1.1 Adhered masonry veneer shall be installed in accordance with the manufacturer's published installation instructions, subject to the Limitations noted in Section 5 and the detailed information noted herein.
- 6.1.2 The veneer is adhered to the supporting substrate with a ½-inch to ¾-inch thick Type S (ASTM C926) mortar setting bed per **FBC 2103.2.4**. Weep screeds (per **FBC 2512.1.2**) and code-compliant flashing shall be installed at the bottom of the wall and at all horizontal terminations of the veneer.

6.2 Stud Construction Substrate:

Wall framing:	Minimum nominal 2x4 SPF (0.42 SG) lumber or minimum 20 ga. (0.033-inch) steel, spaced maximum 16" o.c.
Wall sheathing:	Wood structural panels, minimum nominal ½-inch plywood or 7/16-inch OSB.
Water-resistive barrier:	per FBC 2510.6
Lath:	Minimum 2.5 lb/yd ² galvanized, diamond mesh metal lath meeting ASTM C847, secured to the wall studs with fasteners spaced 6" o.c. vertically.
Lath fasteners:	Wood studs: Minimum 16-gauge x 15/16-inch crown-width corrosion-resistant staples of sufficient length for minimum ¾-inch penetration into the studs. Steel studs: Corrosion-resistant, self-drilling, self-tapping with a minimum 7/16-inch diameter pancake head of sufficient length for minimum 3/8" penetration through the studs
Scratch coat:	A ½-inch to ¾-inch scratch coat of ASTM C926, Type S mortar shall be applied over the lath and allowed to cure for not less than 48-hours prior to veneer application. The scratch coat shall be moistened prior to application of the mortar setting bed.
Coronado Stone Veneer:	Apply the mortar setting bed to area not exceeding 10 ft ² . The veneer is then lightly but firmly tapped into the mortar setting bed to ensure bond while the mortar remains soft and pliable. Alternatively, the veneer may be 'back-buttered' with each unit pressed into place. The mortar setting bed, whether applied to the scratch coat or in a 'back-butter' fashion, shall be of a thickness and consistency to allow mortar to be squeezed out around all edges of each veneer unit to assure a full bond.

6.3 Concrete and Masonry Substrate:

Substrate prep:	For direct-bond applications, the substrate shall be unsealed and unpainted, free of dirt, debris or other bond-breaking material. Painted, sealed or dirty concrete or masonry substrates shall be cleaned by sandblasting.
Scratch coat:	A ½-inch to ¾-inch scratch coat of ASTM C926, Type S mortar shall be applied over the prepared substrate and allowed to cure for not less than 48-hours prior to veneer application. The scratch coat shall be moistened prior to application of the mortar setting bed.
Coronado Stone Veneer:	Apply the mortar setting bed to area not exceeding 10 ft ² . The veneer is then lightly but firmly tapped into the mortar setting bed to ensure bond while the mortar remains soft and pliable. Alternatively, the veneer may be 'back-buttered' with each unit pressed into place. The mortar setting bed, whether applied to the scratch coat or in a 'back-butter' fashion, shall be of a thickness and consistency to allow mortar to be squeezed out around all edges of each veneer unit to assure a full bond.

7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction in order to properly evaluate the installation of this product.

8. MANUFACTURING PLANTS:

Simpsonville, SC

9. QUALITY ASSURANCE ENTITY:

QAI Laboratories (QUA7628); (604) 527-8378; mlansdowne@qai.org

- END OF EVALUATION REPORT -